Docket No.: 5882P048

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	ĺ
Hyun Soo KIM, et al.	Art Group
Application No.:	Examiner:
Filed:	
For: LOGIC ELEMENT EMPLOYING SATURABLE ABSORBER	

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure, enclosed is a copy of Information Disclosure Statement by Applicant (form PTO/SB/08), which is being submitted concurrently with the Utility Application. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

-1- 5882P048

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

12400 Wilshire Blvd., 7th Floor Los Angeles, California 90025

Date: _

(310) 207-3800

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Eric S. Hyman, Reg. No. 30,139

PATENT ATTORNEY DOCKET NO.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:
Serial No.:
Filed:
Title: optical logic element

Commissioner of Patents and Trademarks Washington DC 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sirs:

Japan Patent Application No. JP 4- 75749 is directed to an optical logic element is disclosed which performs an XOR operation through utilization of the high-speed property of light. On each branched waveguide of a Mach-Zehnder interference type optical waveguide there is provided a phase modulating element whose refractive index undergoes a change when it is irradiated by light. The interference type optical waveguide is adapted to provide different optical output levels when the refractive index changes of the phase modulating elements are both zero or a predetermined value and when they differ from each other. Thus, the optical logic element is capable of performing the XOR or XNOR operation at an ultrahigh speed.

	Respectfully submitted,
Date :	

Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			CUPE	Application Number	
			SUKE	Filing Date	
			ICANT	First Named Inventor	Hyun Soo KIM
				Art Unit	
				Examiner Name	
Sheet	. 1	of	2	Attorney Docket Number	5882P048

	U.S. PATENT DOCUMENTS					
Document Number			Publication Date	Pages Columns Lin	Pages Columns Lines Where	
Examiner Initials*	Cite No.1	Number - Kind Code² (if known)	actacus Data	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US-6,271,960 B1	08-07-2001	Michishita et al.		
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	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁰			
		JP 4-75749	05-09-1993	Optical Logic Element	IDS				
									
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Examiner	Date	
Signature	Considered	

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO				Co	Complete if Kn wn		
			CUDE	Application Number			
INFO	INFORMATION DISCLOSURE			Filing Date			
STATEMENT BY APPLICANT (use as many sheets as necessary)			CANT	First Named Inventor	Hyun Soo KIM		
				Art Unit			
				Examiner Name			
Sheet	2	of	2	Attomey Docket Number	5882P048		

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²		
		T.FJELDE, et al.; "Demonstration of 20 Gbit/s All-Optical Wavelength Converter; Electronics Letters, 26th October 2000, Vol. 36, No. 22, pp 1863-1864			
		T.FJELDE, et al.; "10 Gbit/s all-optical logic wavelength converter" Electronics Letters, 27th April 2000, Vol. 36, No. 9, pp 813-815			

Examiner	 Doto
	Date
Signature	Considered
- 3	 551,5155,54

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 08/11/2003. Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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¹Applicant's unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.